

IN THE CLAIMS:

- 1 1. (Currently Amended) A method of providing access to a server inside a
2 firewall comprising the steps of:
3 receiving at a first proxy outside the firewall a connection request from a client
4 that is also outside the firewall;
5 sending said connection request through said firewall, over a control channel
6 previously established by a second proxy inside said firewall;
7 said second proxy authenticating the client;
8 said second proxy establishing a data connection with said first proxy, through
9 said firewall, through which said first proxy can forward requests of said client to said
10 second proxy between a second proxy inside the firewall and the client wherein the
11 second proxy forwards requests from the client to the server inside the firewall.
- 1 2. (Original) The method of claim 1 further comprising the step of receiving a
2 requested resource at the second proxy from the server inside the firewall and using the
3 established connection between the second proxy and the client to forward the requested
4 resource to the client.
- 1 3. (Original) The method of claim 2 wherein the resource is a document
2 containing hyperlinks to other resources.
- 1 4. (Original) The method of claim 3 wherein the second proxy translates the
2 hyperlinks in the document into references directed to and interpreted by the second
3 proxy.
- 1 5. (Original) The method of claim 3 wherein the document is a Web page.
- 1 6. (Currently Amended) The method of claim 1 wherein the data connection uses
2 a secure communication protocol.
- 1 7. (Original) The method of claim 5 wherein the secure communication protocol
2 is SSL.

1 8. (Original) The method of claim 1 wherein the client is a browser and the
2 server is a Web server.

1 9. (Original) The method of claim 1 wherein the client is authenticated using a
2 password mechanism.

1 10. (Original) The method of claim 9 wherein the client is authenticated using a
2 one-time password mechanism.

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1 11. (Original) A method of providing a client access to a resource stored behind
2 a firewall comprising the steps of:
3 parsing the resource for hyperlinks to other resources behind the firewall;
4 rewriting said hyperlinks to point to a proxy enabled to access resources behind
5 the firewall; and
6 transmitting the resource with the rewritten hyperlinks to the client.

1 12. (Original) The method of claim 11 wherein the resource is a Web page.

1 13. (Original) The method of claim 11 wherein the rewritten hyperlinks also
2 comprise security information.

1 14. (New) The method of claim 1 further comprising the step of receiving at said
2 second proxy, in response to a request for a resource from said second proxy, said
3 requested resource from the server inside the firewall and using the established
4 connection between the second proxy and the client to forward the requested resource to
5 the client.

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1 15. (New) The method of claim 1 further comprising the step of receiving from
2 said first proxy, at said second proxy, a request for a resource of the server.

1 16. (New) The method of claim 1 wherein said connection request comprises a
2 URL, the method further comprising said second proxy executing the steps of
3 translating said URL to a URL that corresponds to a URL of a server inside said
4 firewall; and

5 establishing a connection with said URL.

1 17. (New) The method of claim 1 wherein the client is authenticated via said
2 control channel using a password mechanism.

1 18. (New) The method of claim 1 wherein said control channel is maintained by
2 sending a command that requests a response, over said control channel, at intervals that
3 insure a silence period of not more than a preselected value.

1 19. (New) The method of claim 1 wherein said control channel is adapted to
2 carry a limited number of different messages.

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1 20. (New) The method of claim 1 wherein said control channel is adapted to
2 carry messages from a set that consists of
3 a message sent by said second proxy to establish said control channel,
4 a message sent by said first proxy to request establishment of said data
5 connection,
6 a hailing message that expects a reply, and
7 a reply message that acknowledges said hailing message.

1 21. (New) The method of claim 1 said step of establishing said data connection
2 is followed by a step of said second proxy sending a message to said first proxy, over said
3 data connection, to inform said first proxy of the establishment of said data connection.

1 22. (New) The method of claim 1 wherein said control channel is maintained by
2 periodically one of the proxies sending a command that requests a response from the
3 other of said proxies.